WATER-BASED COMPOSITION FOR WET BONDING

Abstract

The present invention discloses a water-based pressure-sensitive adhesive composition having enhanced characteristics. Specifically, it discloses a water-based pressure-sensitive adhesive composition having effective wet strength and dry bond strength, said composition comprising at least two dissimilar aqueous poly (acrylic) dispersions. More specifically, it relates to a water-based pressure sensitive adhesive composition that is characterized as having effective bonding characteristics including: wet tack; wet cohesion; dry-bond shear and peel adhesion failure temperatures.

Background of the Invention

It is well known that aqueous polymer dispersions can provide effective pressure-sensitive adhesive characteristics for the manufacture of dry-bonded laminates. For example, the dispersion is applied onto a substrate and dried to form an adhesive-coated substrate; a second substrate is then mated with the adhesive-coated substrate, using an effective amount of pressure, to form a bond. These dispersions require a drying step to provide an effective bond. The drying step often makes the bonding process less efficient and less cost effective in that production line speeds are often reduced and heat is often used to expedite drying. Examples of such pressure-sensitive adhesives are described